



Australian Bureau of Statistics

CensusAtSchool Australia

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Resources



CaSQ 12C - Pie Chart of Eye Colour Using COUNTIF in Excel

You can download this activity as a rich text file (RTF) using the link at the bottom of the page.

How to: Get a Random Sample from CensusAtSchool

Go to the CensusAtSchool Random Sampler to download a sample.

Reference year: *(select year)* **Sample size:** *96 students*

Select questions: *Eye colour*

Location: *Select location* **Year level:** *(select a range of year levels)*

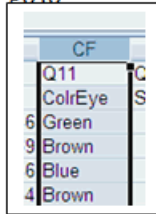
To protect privacy there is a rule built into the sampler that the requested sample size cannot exceed 10% of the respondents for the parameters entered.

Task One: Organising your data

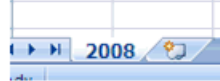
In the CensusAtSchool random sample find data for eye colour.

1. Move your cursor to the top of the Eye Colour column until you have an arrow. Click to select the whole column. Right click or go to

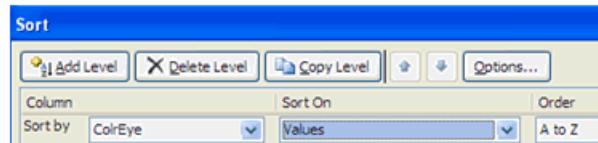
Edit to select Copy.



2. Select a new worksheet from the tab at the bottom of the page and paste your data.



3. Order your data by selecting it and going to Data > Sort and entering the reference cell for your data.



4. In empty cells set up a frequency table with headings for each of the eye colours in your sample. Borders can be altered from the Home menu.

Eye Colour	Total
Green	
Brown	
Blue	
Grey	
Hazel	
Other	

5. Click into the empty cell next to your first eye colour. Enter
`=COUNTIF(a2:a97,"green")`
 where a2 is the first cell of the data a97 is the last cell in the column. Repeat this for each colour.

6. Check you have the correct total by finding the sum of your totals.

In an empty cell in your table enter

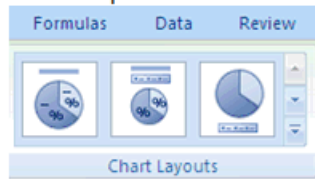
`=SUM(c3:c9)`

Where c3 is your first eye colour total and c9 is the last.

Task Two: Creating a Pie Chart

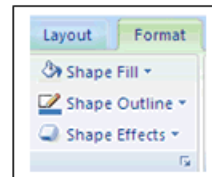
1. Select the data for eye colour in your frequency table. Go to Insert and select Pie to draw your chart.

2. In Chart Layouts choose the first option.

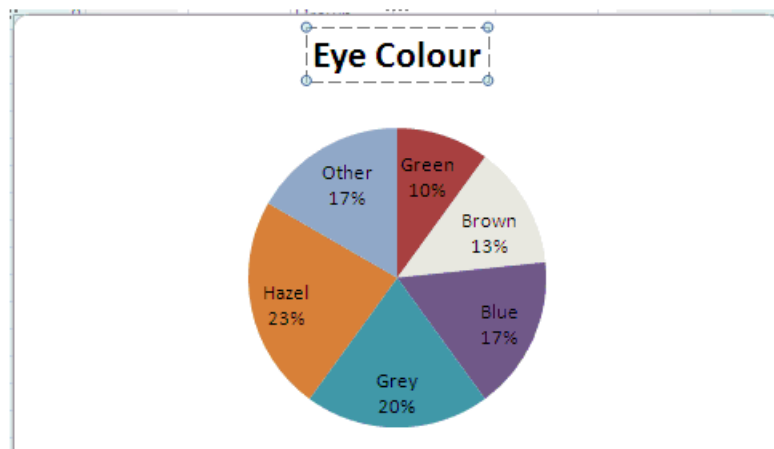


3. Give your chart a title by clicking on Chart Title and changing it to Eye Colour.

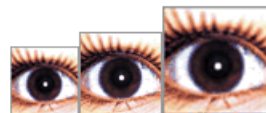
4. If you print in black and white you will need to make sure that you can distinguish between colours in your chart. Click twice in a sector above the label. Go to Format then Shape Fill to select an appropriate colour.



5. Your final pie Chart should look something like this



6. Finally, you can open a Word document and select and copy your chart. Paste it into your document and write a few sentences about what you discovered



Download the full activity:



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This page last updated 12 November 2013

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